

*What is claimed is:*

1. An isolated nucleic acid molecule comprising a polynucleotide having a  
5 sequence at least 95% identical to a sequence selected from the group consisting of:

(a) a nucleotide sequence encoding a human sel-10 polypeptide  
having the complete amino acid sequence selected from the group consisting of SEQ  
ID NO:3, SEQ ID NO:4, SEQ ID NO:5, SEQ ID NO:6, and SEQ ID NO:7, or as  
encoded by the cDNA clone contained in ATCC Deposit No.98978;

10 (b) a nucleotide sequence encoding a human sel-10 polypeptide  
having the complete amino acid sequence selected from the group consisting of SEQ  
ID NO:8, SEQ ID NO:9, and SEQ ID NO:10, or as encoded by the cDNA clone  
contained in ATCC Deposit No. 98979; and

(c) a nucleotide sequence complementary to the nucleotide  
15 sequence of (a) or (b).

2. An isolated nucleic acid molecule comprising polynucleotide which  
hybridizes under stringent conditions to a polynucleotide having the nucleotide  
sequence in (a), (b), or (c) of claim 1.

20 3. The nucleic acid molecule of claim 1, wherein said polynucleotide of  
1(a) encodes a human sel-10 polypeptide having the complete amino acid sequence of  
SEQ ID NO:3.

25 4. The nucleic acid molecule of claim 3, wherein said polynucleotide  
molecule of 1(a) comprises the nucleotide sequence of residues 45-1928 of SEQ ID  
NO:1.

30 5. The nucleic acid molecule of claim 1, wherein said polynucleotide of  
1(a) encodes a human sel-10 polypeptide having the complete amino acid sequence of  
SEQ ID NO:4.

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6. The nucleic acid molecule of claim 5, wherein said polynucleotide molecule of 1(a) comprises the nucleotide sequence of residues 150-1928 of SEQ ID NO:1.

5 7. The nucleic acid molecule of claim 1, wherein said polynucleotide of 1(a) encodes a human sel-10 polypeptide having the complete amino acid sequence of SEQ ID NO:5.

10 8. The nucleic acid molecule of claim 7, wherein said polynucleotide molecule of 1(a) comprises the nucleotide sequence of residues 267-1928 of SEQ ID NO:1.

15 9. The nucleic acid molecule of claim 1, wherein said polynucleotide of 1(a) encodes a human sel-10 polypeptide having the complete amino acid sequence of SEQ ID NO:6.

20 10. The nucleic acid molecule of claim 9, wherein said polynucleotide molecule of 1(a) comprises the nucleotide sequence of residues 291-1928 of SEQ ID NO:1.

25 11. The nucleic acid molecule of claim 1, wherein said polynucleotide of 1(a) encodes a human sel-10 polypeptide having the complete amino acid sequence of SEQ ID NO:7.

30 12. The nucleic acid molecule of claim 11, wherein said polynucleotide molecule of 1(a) comprises the nucleotide sequence of residues 306-1928 of SEQ ID NO:1.

13. The nucleic acid molecule of claim 1, wherein said polynucleotide of 1(b) encodes a human sel-10 polypeptide having the complete amino acid sequence of SEQ ID NO:8.

14. The nucleic acid molecule of claim 13 wherein said polynucleotide molecule of 1(b) comprises the nucleotide sequence of residues 180-1949 of SEQ ID NO:2.

5 15. The nucleic acid molecule of claim 1, wherein said polynucleotide of 1(b) encodes a human sel-10 polypeptide having the complete amino acid sequence of SEQ ID NO:9.

10 16. The nucleic acid molecule of claim 15, wherein said polynucleotide molecule of 1(b) comprises the nucleotide sequence of residues 270-1949 of SEQ ID NO:2.

15 17. The nucleic acid molecule of claim 1, wherein said polynucleotide of 1(b) encodes a human sel-10 polypeptide having the complete amino acid sequence of SEQ ID NO:10.

20 18. The nucleic acid molecule of claim 17, wherein said polynucleotide molecule of 1(b) comprises the nucleotide sequence of residues 327-1949 of SEQ ID NO:2.

19. A vector comprising the nucleic acid molecule of claim 1.

25 20. The vector of claim 19, wherein said nucleic acid molecule of claim 1 is operably linked to a promoter for the expression of a sel-10 polypeptide.

21. A host cell comprising the vector of claim 19.

22. The host cell of claim 21, wherein said host is a eukaryotic host.

30 23. A method of obtaining a sel-10 polypeptide comprising culturing the host cell of claim 22 and isolating said sel-10 polypeptide.

24. An isolated sel-10 polypeptide comprising

(a) an amino acid sequence selected from the group consisting of SEQ ID NO:3, SEQ ID NO:4, SEQ ID NO:5, SEQ ID NO:6, and SEQ ID NO:7, or as encoded by the cDNA clone contained in ATCC Deposit No. 98978;

5 (b) an amino acid sequence selected from the group consisting of SEQ ID NO:8, SEQ ID NO:9, and SEQ ID NO:10, or as encoded by the cDNA clone contained in ATCC Deposit No. 98979.

10 25. The isolated sel-10 polypeptide of claim 24, wherein said polypeptide comprises the amino acid sequence of SEQ ID NO:3.

26. The isolated sel-10 polypeptide of claim 24, wherein said polypeptide comprises the amino acid sequence of SEQ ID NO:4.

15 27. The isolated sel-10 polypeptide of claim 24, wherein said polypeptide comprises the amino acid sequence of SEQ ID NO:5.

28. The isolated sel-10 polypeptide of claim 24, wherein said polypeptide comprises the amino acid sequence of SEQ ID NO:6.

20 29. The isolated sel-10 polypeptide of claim 24, wherein said polypeptide comprises the amino acid sequence of SEQ ID NO:7.

25 30. The isolated sel-10 polypeptide of claim 24, wherein said polypeptide comprises the amino acid sequence of SEQ ID NO:8.

31. The isolated sel-10 polypeptide of claim 24, wherein said polypeptide comprises the amino acid sequence of SEQ ID NO:9.

30 32. The isolated sel-10 polypeptide of claim 24, wherein said polypeptide comprises the amino acid sequence of SEQ ID NO:10.

33. An isolated antibody that binds specifically to the sel-10 polypeptide of claim 24.

